

# Jack Lutz

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## Education

<b>University of California, Los Angeles</b> B.S. Statistics and Data Science, Minor in Mathematics GPA: 3.5, Major GPA: 3.8	Expected Graduation June 2027 Los Angeles, CA
<ul style="list-style-type: none"><li><b>Relevant Coursework:</b> Probability Theory, Mathematical Statistics, Experimental Design, Linear Algebra, Differential Equations, Vector Calculus, Data Analysis and Regression, Game Theory</li></ul>	

## Experience

<b>Lutz Consulting Group</b> <i>Founder</i>	Nov 2024 – Present Las Vegas, NV
<ul style="list-style-type: none"><li>Engineered computer vision pipeline using GPT-4 Vision and AWS S3 to extract and classify 40,000+ product tags; built Streamlit review dashboard backed by PostgreSQL, enabling staff to reconcile full inventory in one weekend.</li><li>Analyzed 138 months of transaction data; built Gradient Boosting forecasting model with engineered lag, rolling, and seasonal features, achieving 11.5% MAPE, 58% improvement over naive baseline on 24-month holdout validation, uncovering \$550K+ in dead stock for liquidation.</li></ul>	
<b>New York Life Insurance Company</b> <i>Data Analyst Intern</i>	June 2025 – Aug 2025 New York, NY
<ul style="list-style-type: none"><li>Built RAG-enabled underwriting chatbot prototype using company underwriting manual as knowledge base, demonstrating feasibility of LLM-powered policy guidance.</li><li>Finalist in company-wide AI Innovation Competition for prototyping RAG-enabled chatbot plugin for Tableau dashboards, querying 10+ years of nationwide data with office-level granularity.</li><li>Designed A/B testing framework demonstrating LLM sycophancy via domain-specific underwriting prompts; findings drove prompt engineering guidelines for production chatbot deployment.</li></ul>	

## Projects

<b>FeedMe</b>   Co-Founder & CIO   Python, FastAPI, Go, Supabase, PostgreSQL, Google OR-Tools	2024 – Present
<ul style="list-style-type: none"><li>Co-founded UCLA dining recommendation startup; architected full backend infrastructure serving CP-SAT constraint-optimized meal plans across 20 campus dining locations.</li><li>Built automated Go scraper ingesting 38,000+ menu items twice daily via GitHub Actions, achieving 95%+ data reliability across 900+ tracked pipeline runs with zero failures.</li><li>Designed 35-endpoint REST API in FastAPI backed by PostgreSQL; OR-Tools CP-SAT solver generates macro-constrained meal plans in 52ms average solve time.</li></ul>	
<b>Quantitative Research Backtester &amp; Platform</b>   Python, TypeScript, C++, FastAPI, Vite	2025 – Present
<ul style="list-style-type: none"><li>Built full-stack quantitative research platform: frontend strategy IDE (Monaco), real-time charting (Lightweight Charts), and MCP AI integration layer, on top of a co-developed C++ backtesting engine with custom DSL and per-fold walk-forward validation.</li><li>Engineered data pipeline integrating equity, crypto, macro (FRED), and fundamental data (SEC EDGAR 10-K/10-Q/13F/insider trades) across 11,000+ US equities.</li><li>Built MCP server with 27 AI tools enabling LLM-assisted strategy development including data retrieval, DSL code generation, backtest execution, live UI awareness and control, subagent orchestration.</li></ul>	

<b>AI Web Scraper Chrome Extension</b>   TypeScript, Chrome Extension MV3	2025
<ul style="list-style-type: none"><li>Built and published Chrome extension with two-mode LLM pipeline (DOM schema inference and automated data cleaning) backed by custom DOM fingerprinting for pattern detection across arbitrary pages; zero dependency core engine with pagination and infinite scroll via MutationObserver.</li></ul>	

## Skills

<b>Languages:</b> Python, R, SQL, TypeScript/JavaScript, Go, C++
<b>ML/Statistical:</b> PyTorch, Scikit-Learn, Statsmodels, FAISS, LangChain, Hugging Face, Google OR-Tools, pandas, NumPy
<b>Infrastructure:</b> FastAPI, PostgreSQL, Supabase, Docker, AWS, Git, Vercel, Railway, React, Expo, MCP, Linux, Claude Code
<b>Leadership:</b> Eagle Scout   President, Bruin AI Research Club (Led DataFest team, individual problem-solving award 2023)   Lambda Chi Alpha Executive Board